Hardware Announcement
August 3, 2004

IBM ThinkCentre M51 Desktop and Tower models with Intel processor technology

Overview

The ThinkCentre™ M51 series is the next stable platform from IBM that offers a blend of essential features and technology, including Intel™ Graphics Media Accelerator 900 performance, eight USB 2.0 ports, numerous security features and powerful software tools to backup and protect your data — all at an affordable price.

Intel Pentium™ 4 processors

- Pentium 4 Processor 530 supporting Hyper-Threading Technology
  - Clock speed: 3.00 GHz
  - L2 cache: 1 MB
  - FSB: 800 MHz
- Pentium 4 Processor 540 supporting Hyper-Threading Technology
  - Clock speed: 3.20 GHz
  - L2 cache: 1 MB
  - FSB: 800 MHz

M51 family leadership design

- Intel 915G core chipset
- IBM Embedded Security Subsystem
- Support for up to 4 GB of 400 MHz PC-3200 DDR1 SDRAM memory[1]
- Durable steel enclosure supports optional large-screen TFT Flat Panel and CRT displays (sold separately)
- Serial ATA HDD
- Integrated Intel Graphics Media Accelerator 900 support

Easy to use and manage

- The M51 systems provide easy-to-access high-speed USB 2.0 ports
- Rescue and Recovery™ with Rapid Restore™ software offers a one-button recovery solution that lets you restore your previously saved system image including data, applications and operating system
- Access IBM software provides easy access to key IBM ThinkVantage™ technologies and IBM service and support
- The easy-to-service desktop and tower chassis designs helps maximize uptime, make upgrades easy and make repairs fast with tool-less cover removal, tool-less slots and internal bays that flip up and allow components to slide in on rails

Optimized for connectivity

- Integrated Gigabit Ethernet (standard on all models)

IBM service and support

Service and support available globally.

For up-to-date marketing and technical information, visit the IBM Web site at

http://www.pc.ibm.com

[1] For models without a separate video card, memory supports both system and video. Accessible system memory may be up to 128 MB less than the amount stated, depending on video mode.

Planned availability date

September 3, 2004

At a glance

The ThinkCentre M51 systems offer:

- Excellent performance and room for growth:
  - Fast Intel Pentium 4 processors
  - Integrated Gigabit Ethernet
  - Outstanding 2D/3D graphics performance for demanding graphics applications
- Innovative tool-less mechanical designs for easy upgradeability and service support
- ThinkVantage technologies which can:
  - Help make computing simpler
  - Help lower your total cost
  - Help increase PC availability and control

This announcement is provided for your information only. For additional information, contact your IBM representative.

Description

New ThinkCentre M51 systems offer industry-leading technologies, superior management capabilities and IBM quality, service and support.

Industry-leading technologies

- Intel 915G core chipset
- Integrated Gigabit Ethernet
- Hyper-Threading technology (select models)
- Innovative tool-less mechanical design for easy upgradeability and service support
- Integrated Intel Graphics Media Accelerator 900 support

Leading business tools and data protection software

Norton AntiVirus 2004 with 90 days of virus definition updates.

Diagnostics

PC-Doctor runs diagnostics tests for major computer components either locally or remotely through the Internet or an intranet.

Remote Deployment Manager (RDM) (downloadable)

RDM is a server-based application that simplifies the setup, configuration, rollout and ongoing lower-level management of networked IBM ThinkCentre desktop computers. Because RDM gains control of a PC before it boots its local operating system, many of the lower-level tasks that previously required a visit to each computer can now be performed over the network.

RDM requires an IBM server (sold separately).

Asset protection

Each system includes Norton AntiVirus 2004 software that is pre-loaded to help protect your critical business information.

Hardware

- Intel Pentium 4 processors
- Integrated Gigabit Ethernet
- 48x Max CD-ROM drive (select models)
- Support for up to 4 GB of 400 MHz PC-3200 DDR1 SDRAM
- Standard audio on-board
- Advanced Configuration and Power Interface (ACPI) support
- One 25-pin parallel port
- Two 9-pin serial ports (one cabled, one optional)
- Eight USB 2.0 ports — two front, six rear for easy connection of peripherals
- Mouse, keyboard and VGA monitor port
- Line-out, line-in and microphone audio jack

Desktop models (4 x 4)

- One full length 16 lane PCI Express (graphics)
- One half length 1 lane PCI Express
- Two half length PCI
- One 3.5-inch slim external accessible bay (FDD)
- One 3.5-inch slim internal hidden bay (HDD)
- Two 5.25-inch external half-high bay (optical drives)

Tower models (4 x 5)

- One full length 16 lane PCI Express (graphics)
- One half length 1 lane PCI Express
- One full length PCI
- One half length PCI
- Two 3.5-inch slim external accessible bay (FDD)
- One 3.5-inch slim internal hidden bay (HDD)
- Two 5.25-inch external half-high bay (optical drives)

Embedded security subsystem

Select ThinkCentre M51 models have built-in hardware and software-based security features:

- Offers platform and user authentication (requires download of security software from IBM)
- Executes all private key-related Public Key Infrastructure (PKI) operations right on the chip (requires third party digital certificate, not included)
- Designed to enable secure storage of private keys (requires third party digital certificate)
- Supports industry standard cryptographic interface (MSCAPI and PKCS#11)
- Provides more secure access authentication by coordinating with Microsoft™ Windows™ logons and strengthening Lotus Notes® logons
- Encrypts and decrypts files, folders and messages with 1024-bit digital signature and up to 256-bit key exchange
- Digital signatures allow non-repudiation and data integrity
- Integrates with optional biometrics and proximity badges
- Adheres to the Trusted Computing Group (TCG) specification recognized by over 180 companies

Pre-installed operating systems

Models come pre-installed with the Microsoft Windows XP Professional or Microsoft Windows XP Home Edition operating system.

Other software tools

The ThinkCentre M51 includes a unique set of software tools to help you manage your desktop computing assets.

Lotus Notes Client and Lotus SmartSuite® Millennium Edition (license certificates shipped with system)

- Lotus® 1-2-3®
- Lotus Organizer®
- Lotus Word Pro®
- Lotus Freelance Graphics®
- Lotus Approach®
- Lotus FastSite®
- Lotus SmartCentre™

Norton AntiVirus 2004: This comprehensive antivirus product for Windows operating systems is pre-loaded on all M51 systems and can simply and reliably detect and remove viruses from your computer.

PC-Doctor diagnostics: Diagnoses common problems on all major system components.

Backup copies of your software: The ThinkCentre M51 has a product recovery program on the system HDD. The IBM Rescue and Recovery with Rapid Restore program backs up your system and restores it to its previously saved level.

A hidden service partition will provide pre-load recovery.

For up-to-date marketing and technical information on your ThinkCentre M51 systems, visit the IBM Web site at

http://www.pc.ibm.com

Warranty information

For a copy of applicable product warranties, contact your authorized IBM Business Partner or IBM representative. IBM makes no representation or warranty regarding vendor products or services.

Telephone support may be subject to additional charges, even during the limited warranty period. If a machine is listed as having on-site service for select repairs, this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, IBM will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board or base cover. For IBM machines with EasyServ or Courier service, IBM will attempt to diagnose and resolve the problem remotely before sending a courier.

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